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(54) Title: NOVEL PHOSPHORUS-CONTAINING THYROMIMETICS

Homologous Displacement Reactions

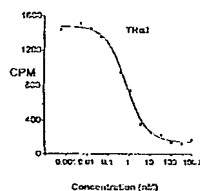


Fig. 1(a)
T3 Binding Assay Results

Homologous Displacement Reactions

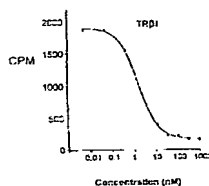


Fig. 1(b)
T3 Binding Assay Results

Homologous Displacement Reactions

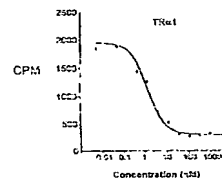


Fig. 1(c)
Compound 17 Binding Assay Results

Homologous Displacement Reactions

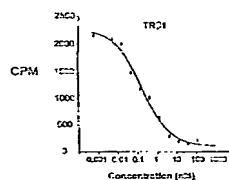


Fig. 1(d)
Compound 17 Binding Assay Results

Homologous Displacement Reactions

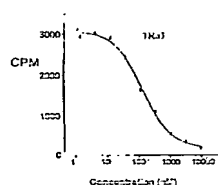


Fig. 1(e)
Compound 7 Binding Assay Results

Homologous Displacement Reactions

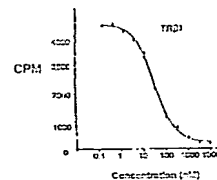


Fig. 1(f)
Compound 7 Binding Assay Results

(57) Abstract: The present invention relates to compounds of phosphonic acid containing T3 mimetics, stereoisomers, pharmaceutically acceptable salts, co-crystals, and prodrugs thereof and pharmaceutically acceptable salts and co-crystals of the prodrugs, as well as their preparation and uses for preventing and/or treating metabolic diseases such as obesity, NASH, hypercholesterolemia and hyperlipidemia, as well as associated conditions such as atherosclerosis, coronary heart disease, impaired glucose tolerance, metabolic syndromex and diabetes.



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